

Title (en)  
METHODS AND APPARATUS ADAPTED TO IDENTIFY A SPECIMEN CONTAINER FROM MULTIPLE LATERAL VIEWS

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR IDENTIFIZIERUNG EINES PROBENBEHÄLTERS AUS MEHREREN SEITLICHEN ANSICHTEN

Title (fr)  
PROCÉDÉS ET APPAREIL PERMETTANT D'IDENTIFIER UN RÉCIPIENT D'ÉCHANTILLON À PARTIR DE PLUSIEURS VUES LATÉRALES

Publication  
**EP 3408640 B1 20210106 (EN)**

Application  
**EP 17744778 A 20170124**

Priority

- US 201662288366 P 20160128
- US 2017014773 W 20170124

Abstract (en)  
[origin: WO2017132167A1] A model-based method of determining characteristics of a specimen container. The method includes providing a specimen container, capturing images of the specimen container at different exposures times and at different spectra having different nominal wavelengths, selecting optimally-exposed pixels from the images at different exposure times at each spectra to generate optimally-exposed image data for each spectra, and classifying the optimally-exposed pixels as at least being one of tube, label or cap, and identifying a width, height, or width and height of the specimen container based upon the optimally-exposed image data for each spectra. Quality check modules and specimen testing apparatus adapted to carry out the method are described, as are other aspects.

IPC 8 full level  
**G01N 1/00** (2006.01); **G01N 3/00** (2006.01); **G01N 21/00** (2006.01); **G01N 21/25** (2006.01); **G01N 21/90** (2006.01); **G01N 21/95** (2006.01); **G01N 35/10** (2006.01); **G06T 5/00** (2006.01); **G06T 5/50** (2006.01); **G06T 7/11** (2017.01); **G06T 7/60** (2017.01); **H04N 23/90** (2023.01); **G01N 35/04** (2006.01)

CPC (source: EP US)  
**G01N 35/00732** (2013.01 - EP US); **G01N 35/04** (2013.01 - US); **G01N 35/1016** (2013.01 - EP US); **G06F 18/2411** (2023.01 - US); **G06T 5/50** (2013.01 - EP US); **G06T 5/92** (2024.01 - EP US); **G06T 7/11** (2017.01 - EP US); **G06T 7/60** (2013.01 - EP US); **H04N 23/90** (2023.01 - US); **G01N 35/02** (2013.01 - EP US); **G01N 2035/00752** (2013.01 - EP US); **G01N 2035/0406** (2013.01 - EP US); **G01N 2035/047** (2013.01 - EP US); **G01N 2035/0493** (2013.01 - EP US); **G01N 2035/1018** (2013.01 - EP US); **G01N 2035/1025** (2013.01 - EP US); **G06T 2207/10024** (2013.01 - EP US); **G06T 2207/10144** (2013.01 - EP US); **G06T 2207/10152** (2013.01 - EP US); **G06T 2207/20081** (2013.01 - EP US); **G06T 2207/20084** (2013.01 - EP US)

Cited by  
WO2022058324A1; EP3839515A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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**US 2017014773 W 20170124**; CN 201780008724 A 20170124; EP 17744778 A 20170124; HK 18114577 A 20181115; JP 2018539275 A 20170124; US 201716072406 A 20170124